

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 201130.407/PL08243.001	APPLICATION NO. 09/692,945
<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		APPLICANTS Nobuyuki Itoh and W. Michael Kavanaugh	
		FILING DATE October 20, 2000	GROUP ART UNIT 1645

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AR	AA	5,766,883	06/16/98	Ballance et al. ✓	435	69.7	
	AB	5,876,969	03/02/99	Fleer et al. ✓	435	69.7	
AR	AC	6,110,893	08/29/00	Hu et al. ✓	514	12	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
AR	AD	WO 97/24445	07/10/97	WIPO ✓	

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	AE	Aaronson et al., "Keratinocyte Growth Factor: A Fibroblast Growth Factor Family Member With Unusual Target Cell Specificity," <i>Annals of the New York Academy of Sciences</i> 638:62-77, 1991.
	AF	Akashi, "Synonymous Codon Usage in <i>Drosophila Melanogaster</i> : Natural Selection and Translational Accuracy," <i>Genetics</i> 136(3):927-935, March 1994.
	AG	Baird and Klagsbrun, "The Fibroblast Growth Factor Family," <i>Cancer Cells</i> 3(6):239-243, June 1991.
	AH	Baloh et al., "Artemin, a Novel Member of the GDNF Ligand Family, Supports Peripheral and Central Neurons and Signals through the GFR $\alpha$ 3-RET Receptor Complex," <i>Neuron</i> 21:1291-1302, December 1998.
	AI	Belluardo et al., "Comparative Localization of Fibroblast Growth Factor Receptor-1, -2, and -3 mRNAs in the Rat Brain: In Situ Hybridization Analysis," <i>J. Comparative Neurology</i> 379:226-246, 1997.
	AJ	Blunt et al., "Overlapping Expression and Redundant Activation of Mesenchymal Fibroblast Growth Factor (FGF) Receptors by Alternatively Spliced FGF-8 Ligands," <i>The Journal of Biological Chemistry</i> 272(6):3733-3738, February 7, 1997.
	AK	Bracci-Laudiero et al., "Increased Levels of NGF in Sera of Systemic Lupus Erythematosus Patients," <i>NeuroReport</i> 4(5):563-565, May 1993.
AR	AL	Burgess and Maciag, "The Heparin-Binding (Fibroblast) Growth Factor Family of Proteins," <i>Annu. Rev. Biochem.</i> 58:575-606, 1989.

EXAMINER

James Rome

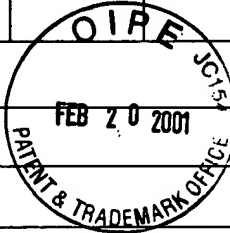
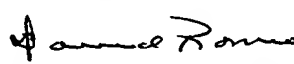
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BB							
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
✓ 4R	BC	Colvin et al., "Skeletal Overgrowth and Deafness in Mice Lacking Fibroblast Growth Factor Receptor 3," <i>Nature Genetics</i> 12(4):390-397, April 1996.					
✓	BD	Coulter et al., "The <i>FGF6</i> Gene Within the <i>FGF</i> Multigene Family," <i>Annals of the New York Academy of Sciences</i> 638:53-61, 1991.					
✓	BE	Crossley and Martin, "The Mouse <i>Fgf8</i> Gene Encodes a Family of Polypeptides and Is Expressed In Regions That Direct Outgrowth and Patterning in the Developing Embryo," <i>Development</i> 121:439-451, 1995.					
✓	BF	Davis et al., "Enzyme-Polyethylene Glycol Adducts: Modified Enzymes with Unique Properties," <i>Enzyme Engineering</i> 4:169-173.					
✓	BG	Dazert et al., "Focal Delivery of Fibroblast Growth Factor-1 by Transfected Cells Induces Spiral Ganglion Neurite Targeting In Vitro," <i>J. of Cellular Physiology</i> 177:123-129, 1998.					
✓	BH	Dickson et al., "Expression, Processing, and Properties of int-2," <i>Annals of the New York Academy of Sciences</i> 638:18-26, 1991.					
✓	BI	Dunnett and Björklund, "Prospects for New Restorative and Neuroprotective Treatments in Parkinson's Disease," <i>Nature</i> 399(supplemental):A32-A39, June 24, 1999.					
✓	BJ	Elde et al., "Prominent Expression of Acidic Fibroblast Growth Factor in Motor and Sensory Neurons," <i>Neuron</i> 7(3):349-364, September 1991.					
✓	BK	Emoto et al., "Basic Fibroblast Growth Factor (FGF) in the Central Nervous System: Identification of Specific Loci of Basic FGF Expression in the Rat Brain," <i>Growth Factors</i> 2:21-29, 1989.					
✓	BL	Ernfors et al., "Identification of Cells in Rat Brain and Peripheral Tissues Expressing mRNA for Members of the Nerve Growth Factor Family," <i>Neuron</i> 5(4):511-526, October 1990.					
✓ 4R	BM	Fallon and Loughlin, <i>The Rat Nervous System</i> , 2nd ed., Academic Press, California, 1995, Chapter 12, "Substantia Nigra," pp. 215-237.					
EXAMINER <i>Diana Romeo</i>				DATE CONSIDERED 9/22/3			
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CA							
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CB							
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
✓	4R	CC	Friden et al., "Blood-Brain Barrier Penetration and in Vivo Activity of an NGF Conjugate," <i>Science</i> 259:373-377, January 15, 1993.				
✓		CD	Gemel et al., "Short Communication: Structure and Sequence of Human <i>FGF8</i> ," <i>Genomics</i> 35(1):253-257, July 1, 1996.				
✓		CE	Ghosh et al., "Molecular Cloning and Characterization of Human <i>FGF8</i> Alternative Messenger RNA Forms," <i>Cell Growth &amp; Differentiation</i> 7(10):1425-1434, October 1996.				
✓		CF	Goldfarb et al., "Expression and Possible Functions of the FGF-5 Gene," <i>Annals of the New York Academy of Sciences</i> 638:38-52, 1991.				
✓		CG	Gospodarowicz and Cheng, "Heparin Protects Basic and Acidic FGF From Inactivation," <i>J. of Cellular Physiology</i> 128:475-484, 1986.				
✓		CH	Gospodarowicz, "Isolation and Characterization of Acidic and Basic Fibroblast Growth Factor," <i>Methods in Enzymology</i> 147(B):106-119, 1987.				
✓		CI	Haub et al., "Expression of the Murine Fibroblast Growth Factor 5 Gene in the Adult Central Nervous System," <i>Proc. Natl. Acad. Sci. USA</i> 87:8022-8026, October 1990.				
✓		CJ	Hoshikawa et al., "Structure and Expression of a Novel Fibroblast Growth Factor, FGF-17, Preferentially Expressed in the Embryonic Brain," <i>Biochemical and Biophysical Research Communications</i> 244(1):187-191, March 6, 1998.				
✓		CK	Hyman et al., "BDNF is a Neurotrophic Factor for Dopaminergic Neurons of the Substantia Nigra," <i>Nature</i> 350(6315):230-232, March 21, 1991.				
✓		CL	Hyman et al., "Overlapping and Distinct Actions of Neurotrophins BDNF, NT-3, and NT-4/5 on Cultured Dopaminergic and GABAergic Neurons of the Ventral Mesencephalon," <i>J. of Neuroscience</i> 14(1):335-347, January 1994.				
✓	4R	CM	Laudiero et al., "Multiple Sclerosis Patients Express Increased Levels of $\beta$ -Nerve Growth Factor in Cerebrospinal Fluid," <i>Neuroscience Letters</i> 147:9-12, 1992.				
EXAMINER <i>James R. [Signature]</i>				DATE CONSIDERED 9/22/3			
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						YES	NO
DB							
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✓	4R	DC	Lin et al., "GDNF: A Glial Cell Line—Derived Neurotrophic Factor for Midbrain Dopaminergic Neurons," <i>Science</i> 260:1130-1132, May 21, 1993.				
✓		DD	Lloyd and Sharp, "Evolution of Codon Usage Patterns: The Extent and Nature of Divergence Between <i>Candida Albicans</i> and <i>Saccharomyces Cerevisiae</i> ," <i>Nucleic Acids Research</i> 20(20):5289-5295, 1992.				
✓		DE	Lopez et al., "Basic Fibroblast Growth Factor in a Porcine Model of Chronic Myocardial Ischemia: A Comparison of Angiographic, Echocardiographic and Coronary Flow Parameters," <i>The J. of Pharmacology and Experimental Therapeutics</i> 282(1):385-390, July 1997.				
✓		DF	Malumbres et al., "Codon Preference in Corynebacteria," <i>Gene</i> 134:15-24, 1993.				
✓		DG	McQueen et al., "Non-Insulin-Dependent Diabetic Microangiopathy in the Inner Ear," <i>The J. of Laryngology and Otology</i> 113:13-18, January 1999.				
✓		DH	McWhirter et al., "A Novel Fibroblast Growth Factor Gene Expressed in the Developing Nervous System is a Downstream Target of the Chimeric Homeodomain Oncoprotein E2A-Pbx1," <i>Development</i> 124:3221-3232, 1997.				
✓		DI	Millbrandt et al., "Persephin, a Novel Neurotrophic Factor Related to GDNF and Neurturin," <i>Neuron</i> 20(2):245-253, February 1998.				
✓		DJ	Miyake et al., "Structure and Expression of a Novel Member, FGF-16, of the Fibroblast Growth Factor Family," <i>Biochemical and Biophysical Research Communications</i> 243(1):148-152, February 4, 1998.				
✓		DK	Miyamoto et al., "Molecular Cloning of a Novel Cytokine cDNA Encoding the Ninth Member of the Fibroblast Growth Factor Family, Which Has a Unique Secretion Property," <i>Molecular and Cellular Biology</i> 13(7):4251-4259, July 1993.				
✓	4R	DL	Nielsen et al., "Identification of Prokaryotic and Eukaryotic Signal Peptides and Prediction of Their Cleavage Sites," <i>Protein Engineering</i> 10:1-6, 1997.				
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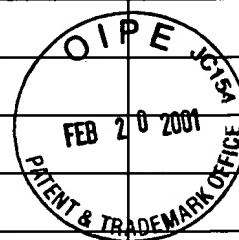
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EB							
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
AR	EC	Nishimura et al., "Structure and Expression of a Novel Human FGF, FGF-19, Expressed In the Fetal Brain," <i>Biochimica et Biophysica Acta</i> 1444(1):148-151, 1999.					
✓	ED	Ohbayashi et al., "Structure and Expression of the mRNA Encoding a Novel Fibroblast Growth Factor, FGF-18," <i>The J. of Biological Chemistry</i> 273(29):18161-18164, July 17, 1998.					
✓	EF	Ohuchi et al., "The Mesenchymal Factor, FGF10, Initiates and Maintains the Outgrowth of the Chick Limb Bud Through Interaction With FGF8, An Apical Ectodermal Factor," <i>Development</i> 124:2235-2244, 1997.					
✓	EG	Otten and Gadiant, "Neurotrophins and Cytokines—Intermediaries Between the Immune and Nervous Systems," <i>Int. J. Devl. Neuroscience</i> 13(3/4):147-151, 1995.					
✓	EH	Ozawa et al., "Expression of the Fibroblast Growth Factor Family and Their Receptor Family Genes During Mouse Brain Development," <i>Molecular Brain Research</i> 41:279-288, 1996.					
✓	EI	Pickles and van Heumen, "The Expression of Messenger RNAs Coding for Growth Factors, Their Receptors, and eph-Class Receptor Tyrosine Kinases in Normal and Ototoxically Damaged Chick Cochleae," <i>Developmental Neuroscience</i> 19:476-487, 1997.					
✓	EJ	Pochon et al., "Neuronal GDNF Expression in the Adult Rat Nervous System Identified by <i>In Situ</i> Hybridization," <i>European J. of Neuroscience</i> 9(3):463-471, March 1997.					
✓	EK	Reich-Slotky et al., "Chimeric Molecules Between Keratinocyte Growth Factor and Basic Fibroblast Growth Factor Define Domains That Confer Receptor Binding Specificities," <i>The J. of Biological Chemistry</i> 270(50):29813-29818, December 15, 1995.					
✓	EL	Schneider and Benner, "Building Blocks for Oligonucleotide Analogs with Dimethylene-Sulfide, Sulfoxide, and -Sulfone Groups Replacing Phosphodiester Linkages," <i>Tetrahedron Letters</i> 31(3):335-338, 1990.					
EXAMINER <i>A. J. Rome</i>				DATE CONSIDERED 9/22/3			
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FB							
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
✓	FR	FC	Scully and Otten, "NGF: Not Just for Neurons," <i>Cell Biology International (Special Issue)</i> 19(5):459-469, 1995.				
✓	FD	FD	Smallwood et al., "Fibroblast Growth Factor (FGF) Homologous Factors: New Members of the FGF Family Implicated in Nervous System Development," <i>Proc. Natl. Acad. Sci. USA</i> 93:9850-9857, September 1996.				
✓	FE	FE	Tanaka et al, "Human Androgen-Induced Growth Factor in Prostate and Breast Cancer Cells: Its Molecular Cloning and Growth Properties," <i>FEBS Letters</i> 363(3):226-230, 1995.				
✓	FF	FF	Tanaka et al., "Cloning and Characterization of An Androgen-Induced Growth Factor Essential for the Androgen-Dependant Growth of Mouse Mammary Carcinoma Cells," <i>Proc. Natl. Acad. Sci. USA</i> 89:8928-8932, October 1992.				
✓	FG	FG	Uhlmann and Peyman, "Antisense Oligonucleotides: A New Therapeutic Principle," <i>Chemical Reviews</i> 90(4):544-548, June 1990.				
✓	FH	FH	Walicke, "Basic and Acidic Fibroblast Growth Factors Have Trophic Effects on Neurons from Multiple CNS Regions," <i>J. of Neuroscience</i> 8(7):2618-2627, July 1988.				
✓	FI	FI	West and Iglewski, "Codon Usage in <i>Pseudomonas Aeruginosa</i> ," <i>Nucleic Acids Research</i> 16(19):9323-9335, 1988.				
✓	FJ	FJ	Wilke et al., "Expression of Fibroblast Growth Factor Receptors (FGFR1, FGFR2, FGFR3) in the Developing Head and Face," <i>Developmental Dynamics</i> 210:41-52, 1997.				
✓	FK	FK	Woodward et al., "Nuclear and Cytoplasmic Localization of Basic Fibroblast Growth Factor in Astrocytes and CA2 Hippocampal Neurons," <i>J. of Neuroscience</i> 12(1):142-152, January 1992.				
✓	FL	FL	Yamamoto et al., "Structure and expression of a novel isoform of mouse FGF homologous factor (FHF)-4," <i>Biochimica et Biophysica Acta</i> 1398:38-41, 1998.				
EXAMINER <i>A. and R.</i>				DATE CONSIDERED 9/22/3			
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					YES	NO
	GK					
	GL					
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OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

✓	PR	GO	Yamasaki et al., "Structure and Expression of the Rat mRNA Encoding a Novel Member of the Fibroblast Growth Factor Family," <i>The J. of Biological Chemistry</i> 271(27):15918-15921, July 5, 1996.
✓		GP	Yoshida et al., "Characterization of the <i>hst-1</i> Gene and Its Product," <i>Annals of the New Academy of Sciences</i> 638:27-37, 1991.
✓	PR	GQ	Zheng et al., "Induction of Cell Proliferation by Fibroblast and Insulin-Like Growth Factors in Pure Rat Inner Ear Epithelial Cell Cultures," <i>The J. of Neuroscience</i> 17(1):216-226, January 1, 1997.

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Sheet 1 of 1

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MAY 21 2001

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PATENT AND TRADEMARK OFFICE

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**SUPPLEMENTAL  
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✓R	AK	WO 00/60085	10/12/00	WIPO		
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✓R	AM	WO 01/18209	03/15/01	WIPO		
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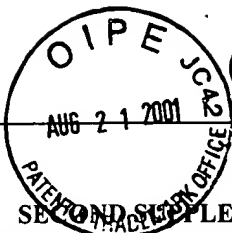
*James R. Rame*

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SECOND SUPPLEMENTAL  
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AR	AG	WO 00/54813	09/21/00	WIPO		
	AH					
	AI					

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AR	AJ	Genbank database, Accession No. AB020858, May 21, 1999.
	AK	Kirikoshi et al., "Molecular Cloning and Characterization of Human FGF-20 on Chromosome 8p21.3-p22," <i>Biochemical and Biophysical Research Communications</i> 274(2):337-343, August 2, 2000.
	AL	Koga et al., "Characterization of a Novel Member of the FGF Family, XFGF-20, in <i>Xenopus laevis</i> ," <i>Biochemical and Biophysical Research Communications</i> 261(3):756-765, August 11, 1999.
AR	AM	Ohmachi et al., "FGF-20, a Novel Neurotrophic Factor, Preferentially Expressed in the Substantia Nigra Pars Compacta of Rat Brain," <i>Biochemical and Biophysical Research Communications</i> 277(2):355-360, October 22, 2000.
	AN	

EXAMINER

David Rocco

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